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NOTICE OF ALLOWANCE AND FEE(S) DUE

5073

7590

02/05/2009

EXAMINER
FREID, RUSSELL WARREN

BAKER BOTTS L.L.P. 2001 ROSS AVENUE SUITE 600 DALLAS, TX 75201-2980 FREJD, RUSSELL WARREN

ART UNIT PAPER NUMBER

2128

DATE MAILED: 02/05/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,090	01/20/2004	David Eugene Huddleston	063170.6951	4604

TITLE OF INVENTION: METHOD AND APPARATUS FOR DISCOVERING EVOLUTIONARY CHANGES WITHIN A SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/05/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance of herwise in Block 1, by (orders and notification of r a) specifying a new corres	naintenance fees w pondence address;	ill be a and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
		lock 1 for any change of address)	Feet pape	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
BAKER BOT 2001 ROSS AV SUITE 600	FS L.L.P. ENUE	5/2009	I he Stat addı tran	reby certify that the es Postal Service we ressed to the Mail	is Fee(s th suf Stop	of Mailing or Transı y) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	deposited with the United t class mail in an envelope above, or being facsimile
DALLAS, TX 7	5201-2980						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/762,090 TITLE OF INVENTION	01/20/2004 I: METHOD AND APPA	ARATUS FOR DISCOVI	David Eugene Huddleston ERING EVOLUTIONARY			063170.6951 SYSTEM	4604
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	05/05/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
FREJD, RUSSI	ELL WARREN	2128	703-002000	J			
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Com	"Indication form ned. Use of a Customer A TO BE PRINTED ON tified below, no assignee	2. For printing on the p (1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attolisted, no name will be THE PATENT (print or type data will appear on the port a substitute for filing an (B) RESIDENCE: (CITY	3 registered patentively, e firm (having as a agent) and the nammer reproduced in the printed. be) atent. If an assignment.	membes of upno nam	er a 2 o to e is 3 entified below, the do	ocument has been filed for
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent) : \Box	Individual 🖵 Co	orporati	on or other private gro	up entity Government
	are submitted: No small entity discount p # of Copies	permitted)	 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 				
5. Change in Entity Sta	itus (from status indicate as SMALL ENTITY stati	*	☐ b. Applicant is no lon	ger claiming SMAI	LENT	TTV status See 37 CE	FR 1 27(σ)(2)
NOTE: The Issue Fee an	nd Publication Fee (if req		ed from anyone other than t				e assignee or other party in
Authorized Signature		Date					
Typed or printed nam	ne		Registration No.				
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	CFR 1.311. The informati 5 U.S.C. 122 and 37 CFR 2 USPTO. Time will vary rden, should be sent to the 2 NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est y depending upon the indiv he Chief Information Office COMPLETED FORMS TO	retain a benefit by the imated to take 12 reidual case. Any coer, U.S. Patent and D THIS ADDRESS	he publ minutes mment Tradem S. SENI	ic which is to file (and to complete, including s on the amount of tin ark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

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2001 ROSS AVEN	NUE		ART UNIT	PAPER NUMBER
SUITE 600 DALLAS, TX 75201-2980			2128 DATE MAILED: 02/05/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 398 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 398 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/762,090	HUDDLESTON ET AI	l			
Notice of Allowability	Examiner	Art Unit	<u></u>			
	Russell Frejd	2128				
	Russell Freja	2120				
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate com IGHTS. This application i	in this application. If not included munication will be mailed in due co	d ourse. THIS			
1. \boxtimes This communication is responsive to <u>the amendment rece</u>	ived 2 October 2008.					
2. The allowed claim(s) is/are <u>1-12</u> .						
 3. ☐ Acknowledgment is made of a claim for foreign priority upon a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	e been received.	, ,,				
3. Copies of the certified copies of the priority do	cuments have been recei	ved in this national stage application	on from the			
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ile a reply complying with the requ	iirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF			
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.					
(a) I including changes required by the Notice of Draftspers	(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached					
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment	or in the Office action of				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ack) of			
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			ote the			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 🗖 Notice of	Informal Patent Application				
 Induce of References Cited (PTO-692) Induce of References Cited (PTO-	<u> </u>	Summary (PTO-413),				
	Paper N	o./Mail Date				
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>10.29.08</u> 	7. 🛛 Examine	's Amendment/Comment				
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examine	's Statement of Reasons for Allow	/ance			
•	9. 🔲 Other	·				
/Russell_Frejd/						
Primary Examiner, Art Unit 2128						

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Art Unit: 2128

Allowance of Application # 10/762,090

1. The following communication is in response to applicant's amendment received 2-October-2008. Claims 1-12 are pending in the application. Claims 13-15 are canceled.

Examiner's Amendment

An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R.
 To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee. Authorization for this Examiner's Amendment was given by Chad Terrell (Reg. No. 52,279) on 5-December-2008.

2.1 In the Claims:

Claim 1	line 4	Change "generating a system model" tousing a computer
system		
		to generate a system model
Claim 3	line 6	Change "generating a system model" tousing a computer
system		
		to generate a system model
Claim 6	line 6	Change "generating a system model" tousing a computer
system		
		to generate a system model

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Reasons for Allowance

3. The following is an Examiner's Statement of Reasons for the indication of allowable subject matter.

3.1 Claims 1-12 are considered allowable, since when reading the claims in light of the specification, as per MPEP § 2111.01, none of the references of record alone or in combination disclose or suggest the combination of limitations specified in independent claims nos. 1, 3, and 6-12, including: in regard to claim 1, selecting from a plurality of candidate features of a system a set of input features and a superset of the input features and other features by using a baseline significance signature [defined at p. 10, lns. 7-10]; generating a system model by using data corresponding to the selected input features set [p. 10, lns. 10-12]; maintaining online data corresponding to the superset of the input features and other features collected from the system [p. 10, lns. 12-14]; determining a new significance signature of the system by using the online superset data to perform a discriminant analysis of the candidate features [p. 10, lns. 14-17]; and detecting an evolutionary change in the system by comparing the new significance signature and the baseline significance signature [p. 10, lns. 17-20].

Dependent claims 2, 4, and 5 are deemed allowable as depending either directly or indirectly from independent claims 1, 3, and 6-12.

3.2 The instant application is directed to a non-obvious improvement over the information described in the article authored by Computer Associates, entitled *Comprehensive eBusiness Intelligence*, which discloses two business intelligence technologies, Automated Rules and Adaptive Pattern Recognition, for resolving complex business problems and constructing

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solutions to common problems by utilizing the combined logic and intuitive capabilities inherent

in business intelligence.

3.3 The art of record, either individually or in combination, fails to teach, suggest, or render

obvious the specific arrangement of elements in the same combination as now required by the

amended claims. In view of the foregoing, the claims of the present application are found to be

patentable over the prior art.

Response Guidelines

4. Any comments considered necessary by applicant **MUST** be submitted no later than the

payment of the Issue Fee and, to avoid processing delays, should preferably accompany the

Issue Fee. Such submissions should clearly be labeled "Comments on Statement of Reasons"

for Allowance".

4.1 Any response to the Examiner in regard to this allowance should be

directed to: Russell Freid, telephone number (571) 272-3779, Monday-Friday

from 0530 to 1400 ET, **or** the examiner's supervisor, Kamini Shah, telephone number (571) 272-2279. Inquires of a general nature or relating to the status of this application should be directed to the

TC2100 Group Receptionist (571) 272-2100.

mailed to: Commissioner of Patents and Trademarks

P.O. Box 1450, Alexandria, VA 22313-1450

or faxed to: (571) 273-8300

Hand-delivered responses should be brought to the Customer Service Window, Randolph

Building, 401 Dulany Street, Alexandria, VA, 22314.

Date: 12-December-2008 /Russell Frejd/

Primary Examiner AU 2128

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